Application No.: 10/577.614 3 Docket No.: 65487(50533)

## Amendments to the Claims

1-38. (Cancelled)

39. (Currently Amended) A compound of the general formula 1

$$(Y^{1})_{m}$$
 -  $Ax^{3}(X^{3})$  -  $C(=0)$  -  $CH=CH$  -  $VAx^{2}(X^{2})$  -  $(Y^{2})_{D}$ 

wherein

V-designates---GR-CH +

Az and Az independently are selected from anyl; m is an integer selected from the group consisting of 0, 1, and 2. P is an integer selected from the group consisting of 0, 1, and 2.

wherein the sum of m and p is at least 1;

each  $Y^1$  and  $Y^2$  independently represents a substituent selected from  $A_{\ell}$  B, and C

$$-Z-N^*(R^1)(R^2)R^4/Q^2$$
, (A)  
 $-NR^3-Z-N^*(R^1)(R^2)R^4/Q$ , and (B)  
 $-Q-Z-N^*(R^1)(R^2)R^4/Q^2$ ; (C)

wherein Z is  $-(CR_2)_{n-1}$ , wherein n is 1-4;

 $R^1$ ,  $R^2$  and  $R^3$  independently are selected from optionally substituted  $C_{1+12}$ -alkyl, optionally substituted  $C_{2+12}$ -alkenyl, optionally substituted  $C_{2+12}$ -alkenyl, optionally substituted  $C_{1+12}$ -alkynyl, optionally substituted  $C_{1+12}$ -alkynyl, optionally substituted  $C_{1+12}$ -alkylearbonyl, optionally substituted arylearbonyl, optionally substituted arylearbonyl, optionally substituted arylearbonyl, optionally substituted arylearbonyl, optionally substituted heteroarylearbonyl, substituted heteroarylearbonyl, aminocarbonyl, mono- and di( $C_{1+2}$ -alkyl) aminocarbonyl, amino- $C_{1,0}$ -alkyl-aminocarbonyl, mono- and di( $C_{1+2}$ -alkyl) amino- $C_{1+2}$ -alkyl aminocarbonyl; or  $R^1$  and  $R^2$  together with the nitrogen atom to which they are attached ( $-N(R^1)R^2$ ) form an optionally substituted nitrogen-containing heterocyclic ring:

 $R^3$  is selected from hydrogen,  $C_{1,6}$ -alkyl, and  $C_{1,6}$ -alkylcarbonyl, said alkyl and alkylcarbonyl optionally carrying substituent(s) selected from halogen, hydroxy,  $C_{1,6}$ -alkoxy, carboxy,  $C_{1,6}$ -alkoxycarbonyl,  $C_{1,6}$ -alkylcarbonyl, amino, mono- and di( $C_{1,6}$ -alkyl)amino, and aryl optionally substituted 1-3 times with  $C_{1,6}$ -alkyl,  $C_{1,6}$ -alkoxy, nitro, cyano, amino or halogen; or  $R^1$  and  $R^3$  together form a biradical  $Z^2$  which is as defined for  $Z_2$ 

Q is an anion;

 $X^1$  and  $X^2$  independently designate a substituent present 0-5 times on  $Ar^1$  and  $Ar^2$ , respectively, each  $X^1$  and  $X^2$  independently being selected from the group consisting of optionally substituted  $C_{1-12}$ -alkyl, optionally substituted  $C_{2-12}$ -alkadienyl, optionally substituted  $C_{4-12}$ -alkadienyl, optionally substituted  $C_{4-12}$ -alkynyl, hydroxy, optionally substituted  $C_{4-12}$ -alkoxy, optionally substituted  $C_{2-12}$ -alkoxy, optionally substituted  $C_{2-12}$ -alkenyloxy, carboxy, optionally substituted  $C_{1-12}$ -alkoxycarbonyl, optionally substituted  $C_{1-12}$ -alkylcarbonyl, tormyl,  $C_{1-4}$ -alkylsulphonylamino, optionally substituted

Application No.: 10/577,614 4 Docket No.: 65487(50533)

aryl, optionally substituted aryloxycarbonyl, optionally substituted aryloxy. optionally substituted arylcarbonyl, optionally substituted arylamino, arylsulphonylamino, optionally substituted heteroaryl, optionally substituted heteroaryloxycarbonyl, optionally substituted heteroaryloxy, optionally substituted heteroarylearbonyl, optionally substituted heteroarylamine, heteroarylsulphonylamino, optionally substituted becerocyclyl, optionally substituted heterocyclyloxycarbonyl, optionally substituted heterocyclyloxy, optionally substituted heterocyclylcarbonyl, optionally substituted heterocyclylamino, heterocyclylsulphonylamino, amino, mono- and di(C16alkyl)amino, carbamoyl, mono- and  $di(C_{1,6}-alkyl)$ aminocarbonyl, amino- $C_{1-6}$ alkyl-aminocarbonyl, mono- and di(C: a-alkyl)amino-C: a-alkyl-aminocarbonyl,  $C_{1-6}$ -alkylearbonylamino, amino- $C_{1-6}$ -alkyl-carbonylamino, mono- and di $\{C_{1-6}$ alkyl)amino-C1-6-alkyl-carbonylamino, cyano, guanidino, carbamido, C1-6-alkanoyloxy, Citamalkylsulphonyl, Citamalkylsulphinyl, Citamalkylsulphonyloxy, aminosulfonyl, mono- and  $di(C_{1-6}-alkyl)$  aminosulfonyl, nitro, optionally substituted  $C_{1/6}$ -alkylthio, and halogen, where any nitrogen-bound  $C_{1-6}$ -alkyl is optionally substituted with hydroxy,  $C_{1,6}$ -alkoxy,  $C_{2-6}$ -alkenyloxy, amino, monoand di( $C_{1/2}$ -alkyl)amino, carboxy,  $C_{1/6}$ -alkylcarbonylamino, halogen,  $C_{1/6}$ alkylthio, C:-6-alkyl-sulphonyl-amino, or guanidino; and salts thereof,

- 40. (Original) The compound according to claim 39, wherein  $R^{\prime}$ ,  $R^{\prime}$  and  $R^{\prime}$  independently are selected from optionally substituted  $C_{1/12}$ -alkyl, optionally substituted  $C_{2/12}$ -alkenyl, optionally substituted  $C_{2/12}$ -alkylearbonyl, arylearbonyl, heteroarylearbonyl, aminocarbonyl, mono- and  $di(C_{1/6}$ -alkyl)aminocarbonyl, amino  $C_{1/6}$ -alkyl-aminocarbonyl, and mono- and  $di(C_{1/6}$ -alkyl)amino- $C_{1/6}$ -alkyl-aminocarbonyl.
- 4), (Original) The compound according to claim 39, wherein  $\mathbb{R}^1$  is selected from hydrogen and methyl.
- 42. (Currently Amended) The compound according to claim 39, wherein  $x^1$  and  $x^2$ independently designates 0-4 substituents, where such optional substituents independently are selected from optionally substituted  $C_{1/12}$  alky), hydroxy, optionally substituted  $G_{k-12}=\frac{a+k-a+y-1}{a+k-a+y-1}$  alkenyloxy, carboxy, optionally substituted  $C_{k-1}=\frac{a+k-a+y-1}{a+k-a+y-1}$  alkenyloxy, carboxy, optionally substituted  $C_{k-1}=a+k-1$  formyl,  $C_{k-1}=a+k-1$ alkylsulphonylamino, optionally substituted axyl, optionally substituted aryloxycarbonyl, optionally substituted aryloxy, optionally substituted arylearbonyl, ophionally substituted arylamino, arylaulphonylamino, optionally substituted heteroaryl, optionally substituted heteroarylamino, optionally substituted heteroarylcarbonyl, optionally substituted heteroaryloxy, heteroarylsulphonylamino, optionally substituted heterocyclyl, optionally substituted heterocyclyloxy, optionally substituted heterocyclylamino, amino, meno- and di(C; -alkyl)amino, carbamoyl, monò- and  $\operatorname{di}(C_{1:6}-\operatorname{alkyl})$  aminocarbonyl, amino- $C_{1:6}$ -alkyl-aminocarbonyl, mono- and  $\operatorname{di}(C_{1:6}-\operatorname{alkyl})$ alkyl)amino\*C:.6-alkyl-aminocarbonyl, C:.6-alkylcarbonylamino, amino-C:-6-alkyl. carbonylamino, mono- and di( $C_{1-6}$ -alkyl)amino- $C_{1-6}$ -alkyl-carbonylamino, guanidino, carbamido, C1-6-alkylsulphonyl, C1-6-alkylsulphinyl, C1-6alkylsulphonyloxy, optionally substituted Cimewalkylthio, aminosulfonyl, monoand di( $C_{1/6}$ -alkyl)aminosulfonyl, and halogen, where any nitrogen-bound  $C_{1-5}$ alkyl may be substituted with a substituent selected from the group consisting of hydroxy,  $C_{1-6}$  alkoxy, and halogen.
- 43. (Oxiginal) The compound according to claim 39, wherein  $R^1$ ,  $R^2$  and  $R^4$  independently are selected from optionally substituted  $C_{1.6}$ -alkyl, optionally substituted  $C_{1.6}$  alkylcarbonyl, heteroarylcarbonyl, aminocarbonyl, mono- and di( $C_{1.6}$ -alkyl)aminocarbonyl, amino- $C_{1.6}$ -alkyl-aminocarbonyl, and mono- and di( $C_{1.6}$ -alkyl)amino- $C_{1.6}$ -alkyl-aminocarbonyl.

Application No.: 10/577,614 5 Docket No.: 65487(50533)

44. (Original) The compound according to claim 39, wherein  $\mathbf{X}^1$  and  $\mathbf{X}^2$  independently designate 0-3 substituents, such optional substituents independently being selected from optionally substituted  $C_{1-6}$ -alkyl, hydroxy, optionally substituted  $C_{1-6}$ -alkylsulphonylamino, optionally substituted axyl, optionally substituted axyl, optionally substituted axyl, optionally substituted axyloxy, optionally substituted axyloxylsulphonylamino, optionally substituted heteroaryl, optionally substituted heteroarylamino, heteroarylsulphonylamino, amino, mono- and di( $C_{1-6}$ -alkyl) amino, carbamoyl,  $C_{1-6}$ -alkylcarbonylamino, guanidino, carbamido, optionally substituted  $C_{1-6}$ -alkylthio, optionally substituted heterocyclyloxy, optionally substituted heterocyclyloxy, optionally substituted heterocyclyloxy, optionally substituted heterocyclyloxy, optionally substituted between the any nitrogen-bound  $C_{1-6}$ -alkyl may be substituted with a substituent selected from the group consisting of hydroxy,  $C_{1-6}$ -alkoxy, and halogen.

## 45. (Cancelled)

- 46. (Original) The compound according to claim 39, wherein at least one of  $Ar^1$  and  $Ar^2$  is phenyl.
- 47. (Original) The compound according to claim 46, wherein both of  $Ar^3$  and  $Ar^3$  are phenyl, m is 1 or 2, and p is 0, 1 or 2.
- 48. (Original) The compound according to claim 39, wherein  $x^2$  represents at least one substituent selected from  $C_{1.6}$ -alkyl,  $C_{1.6}$ -alkoxy,  $C_{1.6}$  alkylcarbonyl, optionally substituted aryloxy, optionally substituted aryloxy, optionally substituted aryloxino, optionally substituted heteroaryl, optionally substituted heteroarylamino, mono- and di( $C_{1.6}$ -alkyl)amino,  $C_{1.6}$ -alkylcarbonylamino, optionally substituted  $C_{1.6}$ -alkylthio, optionally substituted heterocyclyl, optionally substituted heterocyclylamino and halogen.
- 49; (Original) The compound according to claim 39, wherein  $X^2$  represents at least two halogen atoms.
- 50.-51. (Cancelled)
- 52. (Original) The compound according to claim 39, wherein one of Y' and Y'' represents a substituent of the formula A

$$-CH_2-N^4(R^1)(R^2)R^4Q^2$$
 (A)

wherein  $R^1$ ,  $R^2$  and  $R^4$  are independently  $C_{1+6}$ -alkyl.

- 53. (Original) The compound according to claim 51, wherein  $Y^1$  represents a substituent of the formula  $-CH_2-N^*(R^1)(R^2)R^3$  Q1.
- 54. (Original) The compound according to claim 39, wherein one of  $Y^1$  and  $Y^2$  represents a substituent of the formula B

$$-MR^{2}-(CH_{5})_{5/3}-M'(R^{1})(R^{2})R^{4}Q^{2}$$
 (B)

wherein  $R^3$  is selected from hydrogen and methyl, and  $R^4$  ,  $R^2$  and  $R^4$  are independently  $C_{1-6}\text{-alkyl}$  .

55. (Original) The compound according to claim 39, wherein one of  $Y^1$  and  $Y^2$  represents a substituent of the formula C

Application No.: 10/577,614 6 Docket No.: 65487(50533)

$$-O + (CH_2)_{2+1} - N^{\dagger}(R^1)(R^2)R^4/Q \qquad (C)$$

wherein  $R^1$ ,  $R^2$  and  $R^3$  are independently  $C_{1,n}$ -alkyl.

56. (Currently Amended) The compound according to claim 5939, wherein  $Ar^1$  and  $Ar^2$  both are phenyl.

57. (Original) The compound according to claim 39, which is selected from the group consisting of:

(2-(3-13-(2-Chloro 4-methoxy-phenyl)-3-oxo-propenyl)-3',5'-dimethyl-biphenyl-4-yloxy)-ethyl)-trimethyl-ammonium, iodide;

(2-(3-(3-(4-Amino-phonyl)-3-oxo-propenyl)-3',5'-dimethyl-biphenyl-4-yloxy)-

ethyl) - trimethyl ammonium, iodide;

(2-(3-{3 (2-Amino-phenyl)-3-oxo-propenyl}-3',5'-dimethyl-biphenyl (4-yloxy)-ethyl)-trimethyl-ammonium, iodide;

4-{3-{3-(2-Fluoro-4-methoxy-phenyl)-3-oxo-propenyl}-2'-methoxy-biphenyl-4-

yl)-1,1-dimethyl-piperazin-1-ium, iodide; (3-{3 (4 Dibutylamino-phenyl)-acryloyl}-benzyl)-trimethyl-ammonium, iodide;

3-14-(2-Trimethylammenjum-ethoxy)-biphenyl-3-yll-1 (3 trimethylammenium-phenyl)-propenone, di-iodide; and

3 - [4 - (2 + trimethylammonium-ethoxy) - 3 + 5 + dimethyl-biphenyl-3-yl] - 1 - (2 - trimethylammonium-4 - methoxy-phenyl)-propenone, di-iodide.

58. (Currently Amended) A method for treating bacterial infections caused by any one of Staphylococcus aureus; Staphylococcus intermidius; Enterococcus faecalis; Enterococcus faecium; Streptococcus pnoumoniae; Streptococcus pyogenes; Streptococcus agalactiae; and Eschericia coli in a mammal comprising administration of a compound of the general formula I

$$(Y^{1})_{\pi} - Ax^{2}(X^{1}) - C(x_{0}) - CH = CH - VAx^{2}(X^{2}) - (Y^{2})_{0}$$

wherein

Ar' and Ar' independently are selected from ary);

m is an integer selected from the group consisting of 0, 1, and 2,

p is an integer selected from the group consisting of 0, 1, and 2, wherein the sum of m and p is at least 1;

each  $Y^1$  and  $Y^2$  independently represents a substituent selected from A, B, and C

$$-Z-N^*(R^1)(R^2)R^4Q$$
, (A)  
 $-NR^2-Z-N^*(R^1)(R^2)R^4Q^2$ , and (B)  
 $-Q-Z-N^*(R^1)(R^2)R^4Q^2$ ; (C)

wherein Z is a biradical  $-(C(R^0)_2)_{n^+}$ , wherein a is an integer in the range of 1-6 and each  $R^0$  is independently selected from hydrogen and  $C_{1,0}$ -alky), or wherein  $(R^0)_2$  is =0;

 $R^4$ ,  $R^2$  and  $R^3$  independently are selected from optionally substituted  $C_{1-12}$ -alkyl, optionally substituted  $C_{2-12}$ -alkenyl, optionally substituted  $C_{4-12}$ -alkadienyl, optionally substituted  $C_{6-12}$ -alkatrienyl, optionally substituted  $C_{2-12}$ -alkoxycarbonyl, optionally substituted  $C_{2-12}$ -alkoxycarbonyl, optionally substituted  $C_{1-12}$ -alkoxycarbonyl, optionally substituted  $C_{1-12}$ -alkylcarbonyl, optionally substituted aryl, optionally

Application No.: 10/577,614 7 Docket No.: 65487(50533)

substituted aryloxycarbonyl, optionally substituted arylearbonyl, optionally substituted heteroaryloxycarbonyl, optionally substituted heteroaryloxycarbonyl, optionally substituted heteroarylearbonyl, aminocarbonyl, mono- and di( $C_{1.6}$ -alkyl)aminocarbonyl, amino- $C_{1.6}$ -alkyl-aminocarbonyl, mono- and di( $C_{1.6}$ -alkyl)amino- $C_{1.6}$ -alkyl-aminocarbonyl; or  $R^1$  and  $R^2$  together with the nitrogen atom to which they are attached (-N( $R^1$ ) $R^3$ ) form an optionally substituted nitrogen-containing heterocyclic ring;

 $\mathbb{R}^3$  is selected from hydrogen,  $\mathbb{C}_{i,6}$ -alkyl, and  $\mathbb{C}_{i,6}$ -alkylcarbonyl, said alkyl and alkylcarbonyl optionally carrying substituent(s) selected from halogen, hydroxy,  $\mathbb{C}_{1:6}$ -alkoxy, carboxy,  $\mathbb{C}_{1:6}$ -alkoxycarbonyl,  $\mathbb{C}_{1:6}$ -alkylcarbonyl, amino, mono- and di( $\mathbb{C}_{1:6}$ -alkyl)amino, and aryl optionally substituted I-3 times with  $\mathbb{C}_{1:4}$ -alkyl,  $\mathbb{C}_{i:4}$ -alkoxy, nitro, cyano, amino or halogen; or  $\mathbb{R}^1$  and  $\mathbb{R}^3$  together form a biradical  $\mathbb{R}^3$  which is as defined for  $\mathbb{Z}$ :

Q is an anion:

 $X^1$  and  $X^2$  independently designate a substituent present 0-5 times on  $Ar^4$  and  $\mathrm{Ar}^2$ , respectively, each  $\mathrm{X}^4$  and  $\mathrm{X}^4$  independently being selected from the group consisting of optionally substituted  $C_{2,12}$ -alkyl, optionally substituted  $C_{2-12}$ alkenyl, optionally substituted  $C_{4-12}$ -alkadienyl, optionally substituted  $C_{6-12}$ alkatrienyl, optionally substituted  $C_{2-12}$ -alkynyl, hydroxy, optionally substituted  $C_{1/12}$  alkowy, optionally substituted  $C_{2-12}$ -alkenyloxy, carboxy, optionally substituted  $C_{3-12}$ -alkowycarbonyl, optionally substituted  $C_{3-12}$ alkylcarbonyl, formyl, C1-6-alkylculphonylamino, optionally substituted aryl, optionally substituted aryloxycarbonyl, optionally substituted aryloxy, optionally substituted arylearbonyl, optionally substituted arylamino, arylsulphonylamino, optionally substituted heteroaryl, optionally substituted heteroaryloxycarbonyl, optionally substituted heteroaryloxy, optionally substituted heteroarylearbonyl, optionally substituted heteroarylamino, heteroarylsulphonylamino, optionally substituted heterocyclyl, optionally substituted heterocyclyloxycarbonyl, optionally substituted heterocyclyloxy, optionally substituted heterocyclylcarbonyl, optionally substituted heterocyclylamino, heterocyclylsulphonylamino, amino, mono- and di $(C_{1-n}$ alkyl)amino, carbamoyl, mono- and di $(C_{1-6}$ -alkyl)aminocarbonyl, amino- $C_{1-6}$ olkyl-aminocarbonyl, mono- and di $\{C_{1-6},alkyl\}$  amino $\{C_{1-6},alkyl\}$  aminocarbonyl,  $C_{1-6}$ -alkylearbonylamino, amino- $C_{1-6}$ -alkyl-carbonylamino, mono- and di  $(C_{1-6}$ alkyl)amino-Cig-alkyl-carbonylamino, cyano, guanidino, carbamido, Cig-alkanoylexy,  $C_{i,b}$ -alkylsulphonyl,  $C_{i,b}$ -alkylsulphonylexy. aminosulfonyl, mono- and  $di(C_{1-6}-alkyl)$  aminosulfonyl, nitro, optionally substituted  $C_{1-6}$ -alkylthio, and halogen, where any nitrogen-bound  $C_{1+6}$ -alkyl is optionally substituted with hydroxy,  $C_{1,k}$ -alkoxy,  $C_{2k}$ -alkenyloxy, amino, monoand di(C: z=alkyl)amino, carboxy,  $C_{1:6}$ -alkylcarbonylamino, halogen,  $C_{1:6}$ alkylthio, C: alkyl-culphonyl-amino, or guanidino; and salts thereot.

59. (Previously Presented) The compound according to claim 39, wherein one of  $Y^1$  and  $Y^2$  represents a substituent of the formula  $\Lambda$ 

$$-CH_2-N^*(R^1)(R^2)R^4$$
 Q. (A)

wherein  $\mathbb{R}^4$ ,  $\mathbb{R}^5$  and  $\mathbb{R}^4$  are independently  $\mathbb{C}_{1+6}$ -alkyl.

60. (Previously Presented) The method according to claim 58, wherein one of  $Y^1$  and  $Y^2$  represents a substituent of the formula B

$$-NR^3 - (CH_5)_{5-3} - N'(R^3)(R^3)R^4 Q^5 - (B)$$

Application No.: 10/577,614

8

Docket No.: 65487(50533)

wherein  $R^3$  is selected from hydrogen and methyl, and  $R^1,\ R^2$  and  $R^4$  are independently  $C_{1.6}\text{-alkyl}$ .

61. (Previously Presented) The method according to claim 58, wherein one of  $Y^2$  and  $Y^2$  represents a substituent of the formula C

$$-\Omega - (CH_0)_{2/3} - N^+(R^1)(R^2)R^3 Q \qquad (C)$$